

PROJECT DESCRIPTION (MOT PHASE 1B)

I. GENERAL:

MOT PHASE 1B OF THIS PROJECT DOES NOT INVOLVE ROADWORK AT THE MD 175 AND DISNEY ROAD/26TH STREET INTERSECTION; HOWEVER, ELEMENTS REQUIRED FOR TRAFFIC SIGNALIZATION WILL BE INSTALLED DURING THIS PHASE, AND WILL BE ACTIVATED IN SUBSEQUENT CONSTRUCTION PHASES.

TRAFFIC SIGNALIZATION WORK DURING THIS PHASE OF THE ROADWAY RECONSTRUCTION WILL ENTAIL THE INSTALLATION OF PEDESTRIAN SIGNALS AND PUSHBUTTON STATIONS FOR THE ALL QUADRANTS OF THE INTERSECTION. WITH THE EXCEPTION OF THE NORTHEAST QUADRANT. ADDITIONAL INSTALLATIONS WILL CONSIST OF NEW SIGNAL POLES AND MAST ARMS, CABINET AND CONTROLLER, METERED SERVICE PEDESTAL, LIGHTING POLES AND FIXTURES, HANDHOLES, CONDUITS, VIDEO DETECTION CAMERAS AND ALL ASSOCIATED WIRING. ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED UNTIL THE START OF MOT PHASE 2 CONSTRUCTION.

MD 175 (ANNAPOLIS ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

EXISTING TRAFFIC SIGNAL INFRASTRUCTURE AND OPERATIONS WILL NOT BE IMPACTED DURING THIS PHASE, AND WILL CONTINUE TO OPERATE UNINTERRUPTED IN A NEMA 6-PHASE MODE. MD 175 APPROACHES WILL OPERATE CONCURRENTLY; EXCLUSIVE/PERMISSIVE LEFT-TURN PHASE OPERATES FOR BOTH APPROACHES OF MD 175. THE 26TH STREET/DISNEY ROAD APPROACHES ALSO OPERATE CONCURRENTLY. PEDESTRIAN PHASE WITH PUSHBUTTON ACTUATION IS PROVIDED ACROSS THE EAST LEG OF MD 175 AND THE NORTH LEG OF DISNEY ROAD.

PROJECT CONTACTS:

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MR. SONNY BAILEY, CHIEF - SIGN SHOP
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MS. JACQUELINE SHULTZ-BGE
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EQUIPMENT LIST 'C'

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINETS. THE CABINETS AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO DETECTION INTERFACE UNIT 5-8 CAMERAS
963010	1 EA	FOUR CHANNEL RACK-MOUNTED AMPLIFIER
971017	1 EA	LOCAL CONTROLLER AND CABINET SIZE '6' W/ ALL NECESSARY EQUIPMENT HOUSED IN BASE MOUNTED CABINET.
973023	88 SF	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: 1EA R3-5L "LEFT ONLY" (30"x36") MAST ARM MOUNT 1EA R3-5R "RIGHT ONLY" (30"x36") MAST ARM MOUNT 1EA R10-11b "NO TURN ON RED" (36"x36") MAST ARM MOUNT 3EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "PUSH BUTTON TO CROSS ANNAPOLIS RD" (9"x15") POLE-MOUNTED 1EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "PUSH BUTTON TO CROSS DISNEY RD" (9"x15") POLE-MOUNTED 2EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "PUSH BUTTON TO CROSS 26TH ST" (9"x15") POLE-MOUNTED 1EA SIGN ASSEMBLY (36" x 75") EAST, MD 175 LEFT ARROW GROUND-MOUNTED 1EA SIGN ASSEMBLY (36" x 75") WEST, MD 175 LEFT ARROW POLE-MOUNTED 1EA SIGN ASSEMBLY (24" x 51") EAST, MD 175 RIGHT ARROW GROUND-MOUNTED 1EA SIGN ASSEMBLY (24" x 51") WEST, MD 175 RIGHT ARROW POLE-MOUNTED

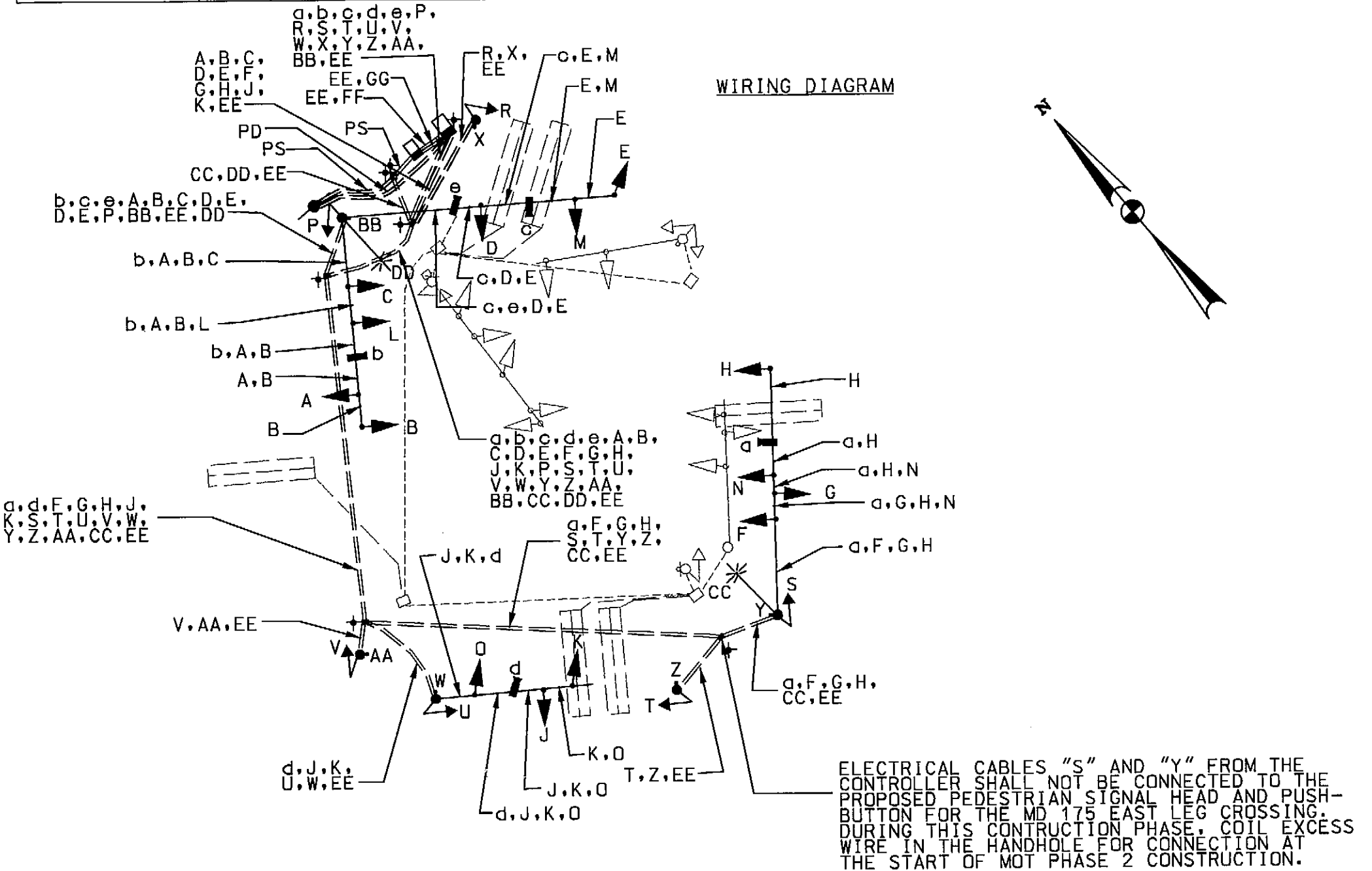
EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	4 CY	TEST PIT EXCAVATION
800000	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
800000	5 EA	VIDEO DETECTION CAMERA, ANY LENGTH CABLE TO CONTROLLER
800000	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON & SIGN
800000	1 EA	BATTERY BACKUP FOR SYSTEM AND CABINET
800000	6 EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1 EA	2 WIRE CENTRAL CONTROL UNIT
801004	13 CY	CONCRETE FOR SIGNAL FOUNDATION
801106	37 LF	INSTALL GROUND MOUNTED SIGN
802501	430 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805118	100 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- BORED
805125	80 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805135	90 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805140	100 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
807202	1 EA	100 AMP METERED SERVICE PEDESTAL
810022	120 LF	CABLE 1-CONDUCTOR, NO. 8 AWG-THHN/THWN
811001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	27 SF	INSTALL GROUND MOUNTED SIGN
813015	60 SF	INSTALL OVERHEAD SIGN
818004	3 EA	10' BREAKAWAY PEDESTAL POLE
818041	1 EA	STEEL POLE WITH 60' MAST ARM
818051	1 EA	STEEL POLE WITH 70' AND 50' MAST ARMS
818052	1 EA	STEEL POLE WITH 70' MAST ARM
831010	2 EA	250 WATT HPS LAMP AND LUMINAIRE
837001	6 EA	GROUND ROD - 3/4" INCH DIA. X 10 FOOT LENGTH
860284	46 EA	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	1400 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	2280 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	2130 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	590 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TRAY
866103	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871202	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

PHASE CHART

	1e	2e	3e	4e	5e	6e	7e	8e	9e	10e	11e	12e	13e	14e
Phase 01 & 05	<G/R	<G/R	R	<G/R	<G/R	R	R	R	R	R	DW	DW	DW	DW
01 & 05 Change	<G/R	<G/R	R	<G/R	<G/R	R	R	R	R	R	DW	DW	DW	DW
Phase 02 & 06	G	G	G	G	G	R	R	R	R	R	WK	WK	DW	DW
Ped. Clear	G	G	G	G	G	R	R	R	R	R	FL/DW	FL/DW	DW	DW
02 & 06 Change	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW
Phase 03 & 07	<G/R	<G/R	G	R	R	R	R	R	R	R	DW	DW	DW	DW
03 Change	<Y/R	<Y/R	G	R	R	R	R	R	R	R	DW	DW	DW	DW
Phase 04 & 08	R	R	R	<G/R	<G/R	G	R	R	R	R	DW	DW	DW	DW
04 Change	R	R	R	<Y/R	<Y/R	G	R	R	R	R	DW	DW	DW	DW
Phase 04 & 08 ALT	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
Ped. Clear	R	R	R	R	R	R	G	G	G	G	DW	DW	FL/DW	FL/DW
04 & 08 ALT Change	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
Fleshing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK



WIRING KEY

a,b,c,d	- 3 CONDUCTOR NO. 18 AWG VIDEO CABLE
A,B,C,D,E,-	7 CONDUCTOR NO. 14 AWG ELEC. CABLE F,G,H,J,K,GG
L,M,N,O	- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE JUMPER
P,R,S,T,U,-	5 CONDUCTOR NO. 14 AWG ELEC. CABLE V
W,X,Y,Z,-	2 CONDUCTOR NO. 14 AWG ELEC. CABLE
AA,BB	- 2 CONDUCTOR NO. 12 AWG ELEC. CABLE TRAY
EE	- NO 6 AWG STRANDED BARE COPPER GROUND WIRE
FF	- 1 CONDUCTOR NO. 8 AWG-THHN/THWN ELEC. CABLE (3 RUNS)
PS	- PROPOSED SERVICE FEED
PD	- PHONE DROP
+	- GROUND ROD (3/4" DIA. X 10' LENGTH)

PHASE 1B

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 175 (ANNAPOLIS ROAD) AT
26TH STREET / DISNEY ROAD
FORT MEADE, MD

MOT PHASE 1B - GENERAL INFORMATION PLAN

SCALE 1" = 20' DATE OCTOBER 2010 CONTRACT NO. AA580A21

DESIGNED BY ENR/MAR COUNTY ANNE ARUNDEL
DRAWN BY ENB LOGMILE 02017507.10
CHECKED BY MAR/NR TIMS NO. J-969
F.A.P. NO. ACPLHD-STP-TIP-3617(11)E TOD NO.

TS NO. 1959D1-GI DRAWING SG-04.1 OF 26 SHEET NO. 124 OF 195

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'D' 23299.36